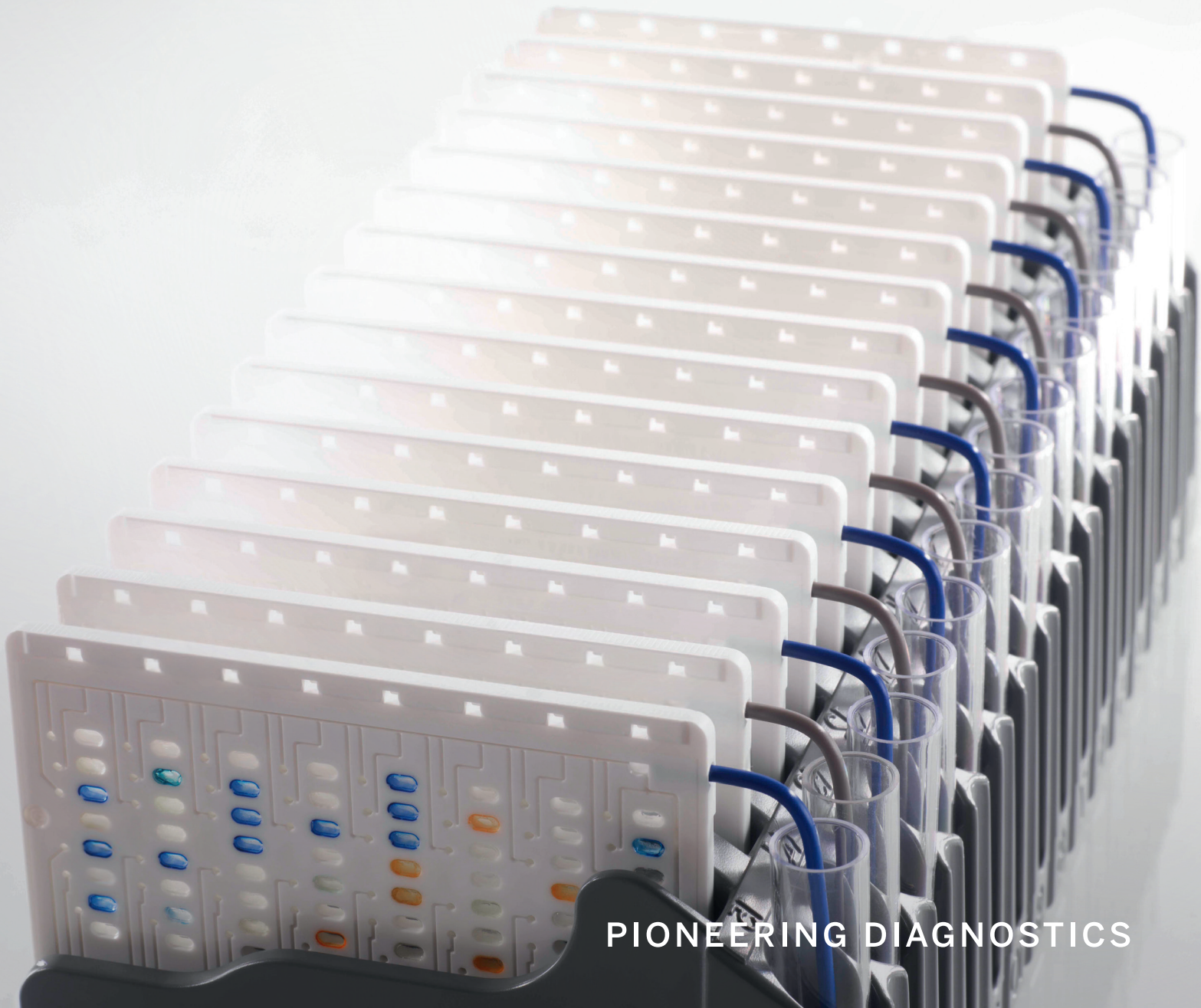




VITEK[®] 2

IDENTIFICATION CARDS

Microbiology with Confidence



PIONEERING DIAGNOSTICS



RELIABLE, ACCURATE, FLEXIBLE

PROVEN ACCURACY

- Each self-contained, disposable test card provides accurate species-level identification or susceptibility results with Minimum Inhibitory Concentrations (MICs)

INNOVATIVE AND FLEXIBLE DESIGN:

- Each card contains microwells with ID biochemicals or AST antimicrobials
- Ready and simple to use
- Pre-applied barcodes for maximum traceability
- Clinical and Laboratory Standards Institute (CLSI) compliant AST formulations available

STRAIGHT FORWARD PREPARATION:

- Inoculation with a simple, standardized suspension of organism in saline
- No reagent addition

Broad And Expanding ID/AST Test Menu

IDENTIFICATION CARD TYPES:

- GN (Gram-negative bacilli)
>150 organisms
- GP (Gram-positive cocci & bacilli)
>120 organisms
- ANC (Anaerobes & Corynebacteria)
>100 organisms
- NH (Neisseria & Haemophilus)
>30 organisms
- YST (Yeast)
>50 organisms

YST card now with *Candida auris*^c

ANTIBIOTIC SUSCEPTIBILITY CARD TYPES:

- Gram-negative bacilli
>30 antimicrobials and extended-spectrum beta-lactamase (ESBL) test
- Staphylococci &/or Enterococci
>20 antimicrobials, 2 high level aminoglycoside screens and Inducible clindamycin resistance (ICR) test
- Streptococci
>12 antimicrobials and ICR test
- *Streptococcus pneumoniae*
>15 antimicrobials
- YST (Yeast)
5 antimicrobials

Additional antimicrobial agents available with ETEST®: more than 90 agents including antifungal and resistance detection strips.

^aOMA Official Methods of Analysis validated claim.
^bSpecies within this group or complex that are OMA Official Methods of Analysis validated claims are *Burkholderia cepacia*, *Cronobacter sakazakii*, and *Enterobacter cloacae*.

^cAdditional claims and taxonomy changes for 8.01 or higher Software Users
^d*Staphylococcus aureus* claim contains only the subspecies *aureus*
^eAdditional claims and taxonomy changes for 9.02 or higher software users

FOCUS ON WHAT MATTERS

Designed for VITEK® 2 automated systems, VITEK 2 identification (ID) and antimicrobial susceptibility (AST) cards provide reliable and accurate results for clinically important bacteria and yeasts. Armed with the right identification and susceptibility results, you can help improve therapeutic success and patient outcome.²⁻⁴

GRAM-NEGATIVE IDENTIFICATION

VITEK 2 GN Card
REF 21341

ENTEROBACTERIACEAE

- *Budvicia aquatica*
- *Buttiauxella agrestis*
- *Cedecea davisae*^a
- *Cedecea lapagei*^a
- *Citrobacter amalonaticus*^a
- *Citrobacter braakii*^a
- *Citrobacter farmeri*^a
- *Citrobacter freundii*^a
- *Citrobacter koseri*^a
- *Citrobacter sedlakii*
- *Citrobacter werkmanii*^e
- *Citrobacter youngae*^a
- *Cronobacter sakazakii* group^b
- *Edwardsiella hoshinae*^a
- *Edwardsiella tarda*^a
- *Enterobacter aerogenes*^a
- *Enterobacter amnigenus* 1^a
- *Enterobacter amnigenus* 2^a
- *Enterobacter asburiae*^a
- *Enterobacter cancerogenus*^a
- *Enterobacter cloacae* complex^b
- *Enterobacter gergoviae*^a
- *Escherichia coli*^a
- *Escherichia coli* O157^a
- *Escherichia fergusonii*^a
- *Escherichia hermannii*^a
- *Escherichia vulneris*^a
- *Ewingella americana*^a
- *Hafnia alvei*^a
- *Hafnia paralvei*^c
- *Klebsiella oxytoca*^a
- *Klebsiella pneumoniae* ssp. *ozaenae*
- *Klebsiella pneumoniae* ssp. *pneumoniae*^a
- *Klebsiella pneumoniae* ssp. *rhinoscleromatis*
- *Kluyvera ascorbata*^a
- *Kluyvera cryocrescens*
- *Kluyvera intermedia*^a (formerly known as *Enterobacter intermedius*)
- *Leclercia adecarboxylata*^a
- *Lelliottia amnigena* 1^{ac} (formerly known as *Enterobacter amnigenus* 1)
- *Lelliottia amnigena* 2^{ac} (formerly known as *Enterobacter amnigenus* 2)
- *Moellerella wisconsensis*^a
- *Morganella morganii* ssp. *morganii*^a
- *Morganella morganii* ssp. *sibonii*
- *Pandoraea* spp.^c
- *Pantoea agglomerans*^a

- *Pantoea* spp.
- *Plesiomonas shigelloides*
- *Pluralibacter gergoviae*^a (formerly known as *Enterobacter gergoviae*)
- *Proteus hauseri*
- *Proteus mirabilis*^a
- *Proteus penneri*^a
- *Proteus vulgaris*
- *Providencia alcalifaciens*^a
- *Providencia rettgeri*
- *Providencia rustigianii*
- *Providencia stuartii*^a
- *Rahnella aquatilis*^a
- *Ralstonia insidiosa*^c
- *Raoultella ornithinolytica*
- *Raoultella planticola*
- *Salmonella enterica* ssp. *arizonae*^a
- *Salmonella enterica* ssp. *diarizonae*
- *Salmonella* group^a
- *Salmonella* ser. *Gallinarum*^a
- *Salmonella* ser. *Paratyphi* A^a
- *Salmonella* ser. *Typhi*^a
- *Serratia ficaria*^a
- *Serratia fonticola*^a
- *Serratia liquefaciens* group^a
- *Serratia marcescens*^a
- *Serratia odorifera*^a
- *Serratia plymuthica*^a
- *Serratia rubidaea*^a
- *Shigella* group^a
- *Shigella sonnei*^a
- *Tatumella ptyseos*^c
- *Yersinia aldovae*
- *Yersinia enterocolitica/frederiksenii*^a
- *Yersinia intermedia*^a
- *Yersinia kristensenii*^a
- *Yersinia pestis*
- *Yersinia pseudotuberculosis*^a
- *Yersinia ruckeri*^a
- *Yokenella regensburgei*

NON-ENTEROBACTERIACEAE

- *Achromobacter denitrificans*
- *Achromobacter xylosoxidans*
- *Acinetobacter baumannii* complex
- *Acinetobacter haemolyticus*
- *Acinetobacter junii*
- *Acinetobacter lwoffii*
- *Acinetobacter radioresistens*
- *Acinetobacter ursingii*
- *Actinobacillus ureae*
- *Aeromonas hydrophila*/
Aeromonas caviae
- *Aeromonas hydrophila*/
Aeromonas punctata^e (formerly known as *Aeromonas caviae*)

- *Aeromonas salmonicida*
- *Aeromonas sobria*
- *Aeromonas veronii*
- *Alcaligenes faecalis* ssp. *faecalis*
- *Bergeyella zoohelcum*^e
- *Bordetella bronchiseptica*
- *Bordetella hinzii*
- *Bordetella trematum*
- *Brevundimonas diminuta/vesicularis*
- *Brucella melitensis*
- *Burkholderia cepacia* group^b
- *Burkholderia gladioli*^a
- *Burkholderia mallei*
- *Burkholderia pseudomallei*
- *Chromobacterium violaceum*
- *Chryseobacterium gleum*
- *Chryseobacterium indologenes*
- *Comamonas testosteroni*
- *Cupriavidus pauculus*
- *Delftia acidovorans*
- *Elizabethkingia meningoseptica*
- *Francisella tularensis*
- *Grimontia hollisae*
- *Mannheimia haemolytica*
- *Methylobacterium* spp.
- *Moraxella* group
- *Myroides* spp.
- *Neisseria animaloris/zoodegmatidis*
- *Ochrobactrum anthropi*
- *Oligella ureolytica*
- *Pandoraea* species^c
- *Paracoccus yeei*
- *Pasteurella aerogenes*
- *Pasteurella canis*
- *Pasteurella dagmatis*
- *Pasteurella multocida*
- *Pasteurella pneumotropica*
- *Pasteurella testudinis*
- *Photobacterium damsela*
- *Pseudomonas aeruginosa*^a
- *Pseudomonas alcaligenes*
- *Pseudomonas fluorescens*^a
- *Pseudomonas luteola*
- *Pseudomonas mendocina*
- *Pseudomonas oleovorans*
- *Pseudomonas oryzae* habitans
- *Pseudomonas putida*
- *Pseudomonas stutzeri*
- *Ralstonia insidiosa*^c
- *Ralstonia mannitolilytica*
- *Ralstonia pickettii*
- *Rhizobium radiobacter*
- *Roseomonas gilardii*
- *Shewanella algae*
- *Shewanella putrefaciens*
- *Sphingobacterium multivorum*

- *Sphingobacterium spiritivorum*
- *Sphingobacterium thalophilum*
- *Sphingomonas paucimobilis*
- *Stenotrophomonas maltophilia*
- *Vibrio alginolyticus*^a
- *Vibrio cholerae*^a
- *Vibrio fluvialis*^a
- *Vibrio metschnikovii*^a
- *Vibrio mimicus*^a
- *Vibrio parahaemolyticus*^a
- *Vibrio vulnificus*^a

HIGHLY PATHOGENIC ORGANISMS

- *Brucella melitensis*^a
- *Burkholderia mallei*^a
- *Burkholderia pseudomallei*^a
- *Escherichia coli* O157^a
- *Francisella tularensis*^a
- *Yersinia pestis*^a

GRAM-POSITIVE IDENTIFICATION

VITEK 2 GP Card
REF 21342

- *Abiotrophia defectiva*
- *Aerococcus urinae*
- *Aerococcus viridans*
- *Alloiococcus otitis*
- *Dermacoccus nishinomiyaensis*/
Kytococcus sedentarius
- *Enterococcus avium*
- *Enterococcus casseliflavus*
- *Enterococcus cecorum*
- *Enterococcus columbae*
- *Enterococcus durans*
- *Enterococcus faecalis*
- *Enterococcus faecium*
- *Enterococcus gallinarum*
- *Enterococcus hirae*
- *Enterococcus raffinosus*
- *Enterococcus saccharolyticus*
- *Erysipelothrix rhusiopathiae*
- *Facklamia hominis*
- *Gardnerella vaginalis*
- *Gemella bergeri*
- *Gemella haemolysans*
- *Gemella morbillorum*
- *Gemella sanguinis*
- *Globicatella sanguinis*
- *Globicatella sulfidificans*
- *Granulicatella adiacens*
- *Granulicatella elegans*
- *Helcococcus kunzii*
- *Kocuria kristinae*
- *Kocuria rhizophila*
- *Kocuria rosea*
- *Kocuria varians*
- *Lactococcus garvieae*
- *Lactococcus lactis* ssp. *cremoris*
- *Lactococcus lactis* ssp. *lactis*
- *Lactococcus raffinolactis*
- *Leuconostoc citreum*
- *Leuconostoc lactis*
- *Leuconostoc mesenteroides*
ssp. *cremoris*
- *Leuconostoc mesenteroides*
ssp. *dextranicum*
- *Leuconostoc mesenteroides*
ssp. *mesenteroides*
- *Leuconostoc pseudomesenteroides*
- *Listeria fleischmannii*^c
- *Listeria grayi*^a
- *Listeria innocua*^a
- *Listeria ivanovii*^a
- *Listeria monocytogenes*^a
- *Listeria rocourtiae*^c
- *Listeria seeligeri*^a
- *Listeria welshimeri*^a
- *Micrococcus luteus*
- *Micrococcus lylae*
- *Pediococcus acidilactici*
- *Pediococcus pentosaceus*
- *Rothia dentocariosa*
- *Rothia mucilaginoso*
- *Staphylococcus arlettae*
- *Staphylococcus aureus*^{ad}
- *Staphylococcus auricularis*
- *Staphylococcus capitis*
- *Staphylococcus caprae*
- *Staphylococcus carnosus*
ssp. *carnosus*
- *Staphylococcus chromogenes*
- *Staphylococcus cohnii* ssp. *cohnii*
- *Staphylococcus cohnii*
ssp. *urealyticus*
- *Staphylococcus epidermidis*^a
- *Staphylococcus equorum*
- *Staphylococcus gallinarum*
- *Staphylococcus haemolyticus*
- *Staphylococcus hominis* ssp. *hominis*
- *Staphylococcus hominis* ssp.
novobiosepticus
- *Staphylococcus hyicus*^a
- *Staphylococcus intermedius*^a
- *Staphylococcus kloosii*
- *Staphylococcus lentus*
- *Staphylococcus lugdunensis*
- *Staphylococcus pseudintermedius*
- *Staphylococcus saprophyticus*
- *Staphylococcus schleiferi*
- *Staphylococcus sciuri*
- *Staphylococcus simulans*
- *Staphylococcus vitulinus*
- *Staphylococcus warneri*
- *Staphylococcus xylosus*
- *Streptococcus agalactiae*
- *Streptococcus alactolyticus*
- *Streptococcus anginosus*
- *Streptococcus canis*
- *Streptococcus constellatus*
ssp. *constellatus*
- *Streptococcus constellatus*
ssp. *pharyngis*
- *Streptococcus cristatus*
- *Streptococcus downei*
- *Streptococcus dysgalactiae*
ssp. *dysgalactiae*
- *Streptococcus dysgalactiae*
ssp. *equisimilis*
- *Streptococcus equi* ssp. *equi*
- *Streptococcus equi*
ssp. *zooepidemicus*
- *Streptococcus equinus*
- *Streptococcus gallolyticus*
ssp. *gallolyticus*
- *Streptococcus gallolyticus*
ssp. *pasteurianus*
- *Streptococcus gordonii*
- *Streptococcus hyointestinalis*
- *Streptococcus infantarius* ssp. *coli*
(formerly known as *Str. lutetiensis*)
- *Streptococcus infantarius*
ssp. *infantarius*
- *Streptococcus iniae*^c
- *Streptococcus intermedius*
- *Streptococcus mitis*/
Streptococcus oralis
- *Streptococcus mutans*
- *Streptococcus ovis*
- *Streptococcus parasanguinis*
- *Streptococcus pluranimalium*
- *Streptococcus pneumoniae*
- *Streptococcus porcinus*

- *Streptococcus pseudoporcinus*
- *Streptococcus pyogenes*
- *Streptococcus salivarius*
ssp. *salivarius*
- *Streptococcus salivarius* ssp.
thermophilus
- *Streptococcus sanguinis*
- *Streptococcus sobrinus*
- *Streptococcus suis* I^e
- *Streptococcus suis* II^e
- *Streptococcus thoraltensis*
- *Streptococcus uberis*
- *Streptococcus vestibularis*
- *Vagococcus fluvialis*

ANAEROBE CORYNEBACTERIA IDENTIFICATION

VITEK 2 ANC Card
REF 21347

- *Actinotignum schaalii*^e (formerly
known as *Actinobaculum schaalii*)
- *Actinomyces bovis*
- *Actinomyces canis*^e
- *Actinomyces israelii*
- *Actinomyces meyeri*
- *Actinomyces naeslundii*
- *Actinomyces neuii*
- *Actinomyces odontolyticus*
- *Actinomyces turicensis*
- *Anaerococcus prevotii*
- *Arcanobacterium haemolyticum*
- *Atopobium vaginae*
- *Bacteroides caccae*
- *Bacteroides eggerthii*
- *Bacteroides fragilis*
- *Bacteroides ovatus*
- *Bacteroides pyogenes*^e
- *Bacteroides stercoris*
- *Bacteroides thetaiotaomicron*
- *Bacteroides uniformis*
- *Bacteroides vulgatus*
- *Bacteroides xylanisolvens*^e
- *Bifidobacterium* spp.
- *Campylobacter ureolyticus*
- *Clostridium baratii*
- *Clostridium bifermentans*
- *Clostridium butyricum*
- *Clostridium cadaveris*
- *Clostridium chauvoei*
- *Clostridium clostridioforme*
- *Clostridium difficile*
- *Clostridium group*
- *Clostridium histolyticum*
- *Clostridium paraputrificum*
- *Clostridium perfringens*
- *Clostridium ramosum*
- *Clostridium septicum*
- *Clostridium sordellii*
- *Clostridium sporogenes*
- *Clostridium subterminale*
- *Clostridium tertium*
- *Collinsella aerofaciens*
- *Corynebacterium amycolatum*
- *Corynebacterium diphtheriae*
- *Corynebacterium glucuronolyticum*^e
- *Corynebacterium jeikeium*
- *Corynebacterium minutissimum*
- *Corynebacterium*
pseudodiphtheriticum
- *Corynebacterium striatum*
- *Corynebacterium ulcerans*
- *Corynebacterium urealyticum*
- *Eggerthella lenta*
- *Eggerthia cateniformis*
- *Eubacterium limosum*
- *Finegoldia magna*
- *Fusobacterium mortiferum*
- *Fusobacterium necrophorum*
- *Fusobacterium nucleatum*
- *Fusobacterium varium*
- *Hathewayia histolytica*^e (formerly
known as *Clostridium histolyticum*)
- *Hathewayia limosa*^e (formerly known
as *Clostridium limosum*)
- *Lactobacillus acidophilus*
- *Lactobacillus buchneri*
- *Lactobacillus casei*
- *Lactobacillus fermentum*
- *Lactobacillus gasseri*
- *Lactobacillus hilgardii*
- *Lactobacillus parabuchneri*
- *Lactobacillus paracasei*
- *Lactobacillus plantarum*
- *Microbacterium flavescens*
- *Microbacterium* spp.
- *Paeniclostridium sordellii*^e (formerly
known as *Clostridium sordellii*)
- *Parabacteroides distasonis*
- *Parabacteroides merdae*
- *Paraclostridium bifermentans*^e
(formerly known as *Clostridium*
bifermentans)
- *Parvimonas micra*
- *Peptoniphilus asaccharolyticus*
- *Peptoniphilus indolicus*
- *Peptostreptococcus anaerobius*
- *Porphyromonas asaccharolytica*^e
- *Porphyromonas gingivalis*
- *Porphyromonas gulae*^e
- *Porphyromonas uenonus*^e
- *Prevotella bivia*
- *Prevotella buccae*
- *Prevotella disiens*
- *Prevotella denticola*
- *Prevotella intermedia*
- *Prevotella melaninogenica*
- *Prevotella nanceiensis*^e
- *Prevotella oralis*
- *Prevotella oris*
- *Prevotella salivae*^e
- *Propionibacterium acnes*
- *Propionibacterium granulosum*
- *Propionibacterium propionicum*
- *Staphylococcus saccharolyticus*
- *Terrisporobacter glycolicus*
(formerly known as *Clostridium*
glycolicum)
- *Trueperella pyogenes*
- *Turicella otitidis*
- *Veillonella* spp

NEISSERIA HAEMOPHILUS IDENTIFICATION

VITEK 2 NH Card
REF 21346

- *Actinobacillus pleuropneumoniae*^c
- *Actinobacillus suis*^c
- *Actinobacillus ureae*
- *Aggregatibacter actinomycetemcomitans*
- *Aggregatibacter aphrophilus*
- *Aggregatibacter segnis*
- *Campylobacter coli*
- *Campylobacter fetus* ssp. *fetus*
- *Campylobacter jejuni* ssp. *jejuni*
- *Capnocytophaga* spp.
- *Cardiobacterium hominis*
- *Eikenella corrodens*
- *Gardnerella vaginalis*
- *Haemophilus haemolyticus*
- *Haemophilus influenzae*
- *Haemophilus parahaemolyticus*
- *Haemophilus parainfluenzae*
- *Histophilus somni*^c
- *Kingella denitrificans*
- *Kingella kingae*
- *Moraxella (Branhamella) catarrhalis*
- *Moraxella (Neisseria) ovis*^c
- *Neisseria cinerea*

- *Neisseria elongata*
- *Neisseria gonorrhoeae*
- *Neisseria lactamica*
- *Neisseria meningitidis*
- *Neisseria sicca*
- *Neisseria weaveri*^c
- *Oligella urethralis*
- *Riemerella anatipestifer*^c
- *Suttonella indologenes*

YEAST IDENTIFICATION

VITEK 2 YST Card
REF 21343

- *Candida albicans*
- *Candida auris*^c
- *Candida boidinii*
- *Candida catenulata*
- *Candida ciferrii*^c (formerly known as *Stephanoascus ciferrii*)
- *Candida colliculosa*
- *Candida dubliniensis*
- *Candida duobushaemulonii*^c
- *Candida famata*
- *Candida freyschussii*
- *Candida glabrata*
- *Candida guilliermondii*
- *Candida haemulonii*
- *Candida haemulonii* var *vulnera*^c
- *Candida inconspicua*/
Candida lambica
- *Candida intermedia*
- *Candida kefyr*
- *Candida krusei*
- *Candida lipolytica*
- *Candida lusitanae*
- *Candida magnoliae*
- *Candida norvegensis*
- *Candida parapsilosis*
- *Candida pelliculosa*
- *Candida pulcherrima*
- *Candida rugosa*
- *Candida sake*
- *Candida spherica*
- *Candida tropicalis*
- *Candida utilis*
- *Candida zeylanoides*
- *Cryptococcus albidus*
- *Cryptococcus gattii*^c
- *Cryptococcus laurentii*
- *Cryptococcus neoformans*
- *Cryptococcus terreus*
- *Cryptococcus uniguttulatus*
- *Geotrichum klebahnii*
- *Kloeckera* spp.
- *Kodamaea ohmeri*
- *Malassezia furfur*
- *Malassezia pachydermatis*

- *Millerozyma farinosa* (formerly known as *Pichia farinosa*)
- *Prototheca wickerhamii*
- *Prototheca zopfii*
- *Rhodotorula glutinis*/
Rhodotorula mucilaginosa
- *Rhodotorula minuta*
- *Saccharomyces cerevisiae*
- *Saprochaete capitata* (formerly known as *Geotrichum capitatum*)
- *Sporobolomyces salmonicolor*
- *Trichosporon asahii*
- *Trichosporon inkin*
- *Trichosporon mucoides*
- *Zygosaccharomyces bailii*
- *Zygosaccharomyces species*^c (includes *Zygosaccharomyces bailii*; *Zygosaccharomyces bailii* is no longer a single species claim)

RESULTS YOU CAN TRUST

The VITEK® 2 ADVANCED EXPERT SYSTEM™ software lets you focus your time where it is most required in the lab. The ADVANCED EXPERT SYSTEM determines the consistency level of every result and quickly identifies those truly needing a microbiologist's valuable time and attention. This allows the majority of results to be quickly and confidently reported to clinicians without need for review.¹



VITEK[®] 2

IDENTIFICATION CARDS

Microbiology with Confidence

References:

1. LaBombardi, VJ. **Maximizing the Use of the Advanced Expert System™ to Improve Patient Care.** White Paper. 2011.
2. Barenfanger J, Drake C, Kacich G. **Clinical and Financial Benefits of Rapid Bacterial Identification and Antimicrobial Susceptibility Testing.** *J Clin Microbiol.* 1999;37(5):1415-1418.
3. Galar A, Leiva J, Espinosa M, Guillén-Grima F, Hernández S, Yuste JR. **Clinical and economic evaluation of the impact of rapid microbiological diagnostic testing.** *J Infect.* 2012;65(4):302-309.
4. Galar A, Yuste JR, Espinosa M, Guillén-Grima F, Hernández-Crespo S, Leiva J. **Clinical and economic impact of rapid reporting of bacterial identification and antimicrobial susceptibility results of the most frequently processed specimen types.** *Eur J Clin Microbiol Infect Dis.* 2012;31 (9):2445-2452.

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